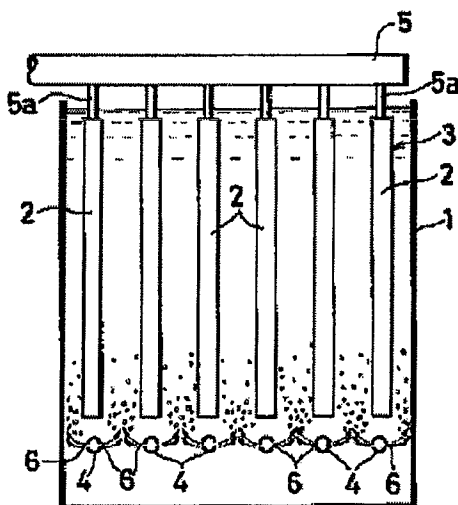


**MEMBRANE SEPARATION APPARATUS****Publication number:** JP10033955**Publication date:** 1998-02-10**Inventor:** MATSUMOTO TOMOKI; IWASAKI KOICHI**Applicant:** HITACHI SHIPBUILDING ENG CO**Classification:****- international:** B01D63/08; B01D65/02; C02F1/44; B01D63/08;  
B01D65/00; C02F1/44; (IPC1-7): B01D63/08;  
B01D65/02; C02F1/44**- European:****Application number:** JP19960193127 19960723**Priority number(s):** JP19960193127 19960723

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**Abstract of JP10033955**

**PROBLEM TO BE SOLVED:** To prevent the clogging of the air diffusion port of an air diffusion pipe and to disperse air bubbles blown out of the air diffusion port throughout a liquid. **SOLUTION:** A membrane separation apparatus is equipped with a membrane separation tank 1, a filter membrane unit 3 consisting of a large number of vertical hollow yarn flat membrane modules 2 arranged mutually parallel so as to leave intervals between them and arranged in the membrane separation tank 1 and a plurality of air diffusion pipes 4 arranged under the filter membrane units 2 in the membrane separation tank 1. The air diffusion pipes 4 are arranged mutually parallel so as to provide intervals therebetween. A plurality of lateral air diffusion ports are formed to both side parts of the pipe wall of each of the air diffusion pipes 4 so as to provide intervals in the length direction of the air diffusion pipe. The air diffusion ports 6 of the adjacent pipes 4 are mutually opposed.



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